(11) **EP 0 913 338 A3** 

(12)

### **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: 31.05.2000 Bulletin 2000/22

(51) Int Cl.<sup>7</sup>: **B65D 75/00**, B65D 75/26, B31B 39/00

(43) Date of publication A2: 06.05.1999 Bulletin 1999/18

(21) Application number: 98307842.9

(22) Date of filing: 28.09.1998

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 30.09.1997 US 941602

(71) Applicant: Cryovac, Inc.
Duncan, South Carolina 29334 (US)

(72) Inventors:

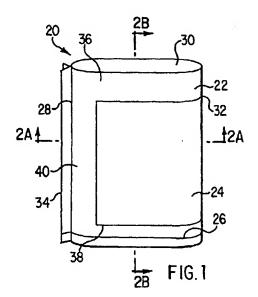
Mize, James A., Jr.
 Simpsonville SC 29681 (US)

Oberle, Timothy T.
 Greenville SC 29615 (US)

(74) Representative: Barlow, Roy JamesJ.A. KEMP & CO.14, South SquareGray's InnLondon WC1R 5LX (GB)

#### (54) Patch bag and process of making same

(57)An L-seal patch bag (22) has an open top (30), a bottom seal (26), a seal along a first side edge (34), and a patch (24) covering a seamless second side edge (32). The bag is preferably made by adhering, at intervals and across a continuous flat film, a plurality of discrete film patches (24). Each of the patches covers a centerline running the length of the elongate flat film. The resulting laminated article is then folded along its length, preferably at the centerline, making a first seal by sealing the elongate flat film to itself by sealing along a first (open, non-seamless) side edge of the elongate flat film. A second seal is then made by sealing across an entirety of the folded, laminated article, which is thereafter cut across below the second seal, whereby an L-seal patch bag is produced. Analogous processes can be used to produce a side-seal patch bag or a backseamed patch bag. Still another process of making a side-seal patch bag involves folding the elongate flat film transversely before sealing along the side edges and cutting the resulting side-seal bag from the remainder ofthe elongate flat film.





## **EUROPEAN SEARCH REPORT**

Application Number EP 98 30 7842

|                      | Objective of development and the  | ERED TO BE RELEVANT  | 0.1  |   |  |  |  |
|----------------------|---|--|--|---|--|--|--|
| Category             | Citation of document with it of relevant pass   | ndication, where appropriate,<br>lages                               | Relevant<br>to claim   | CLASSIFICATION OF THE APPLICATION (Int.CLs)             |  |  |  |
| X                    | WO 96 00688 A (GRAC<br>11 January 1996 (19<br>* page 30, line 30<br>* page 7, line 22 -<br>* page 27, line 12<br>claim 17; figures 7                          | 1-13   | B65D75/00<br>B65D75/26<br>B31B39/00  |   |  |  |  |
| Y                    | + page 29, line 18  | - line 23 *  | 14-17,21   |   |  |  |  |
| Y                    | US 4 011 798 A (BAM<br>15 March 1977 (1977<br>* the whole documen   | 14-17,21   |  |   |  |  |  |
| X                    | US 5 540 646 A (WIL   | LIAMS GREGORY K ET AL)   | 20   |   |  |  |  |
| A                    | 30 July 1996 (1996-<br>* the whole documen  |  | 14-17,21   |   |  |  |  |
| X                    | GB 2 057 392 A (AME<br>1 April 1981 (1981-<br>* page 5, line 70 -   | 18,19  |  |   |  |  |  |
| A                    | US 5 545 419 A (BRA<br>13 August 1996 (199<br>* the whole documen   | 6-08-13)   | 1-21   | TECHNICAL PIELDS<br>SEARCHED (Int.Cl.6)<br>B65D<br>B31B |  |  |  |
|                      |   |  |  |   |  |  |  |
|                      |   |  | İ  |   |  |  |  |
|                      | The present search report has   |  | L.,  | Examiner  |  |  |  |
|                      | Place of search THE HAGUE   | Date of completion of the search 5 April 2000                        | Par  | nice, C   |  |  |  |
| X : peri<br>Y : peri | ATEGORY OF CITED DOCUMENTS<br>loularly relevant if taken alone<br>loularly relevant if combined with end<br>unent of the same calegory<br>motogoid background | T : theory or principle E : earlier patient do: after the filing dat | e underlying the comment, but public to the comment, but public to the comment of | invention   |  |  |  |
| O:nor                | -written decloeure<br>rmediate document   | & : member of the sa   | & : member of the same peters family, corresponding document   |   |  |  |  |

## ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 98 30 7842

This annex lists the patent family members relating to the patent documents cited in the above—mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

05-04-2000

| Patent document<br>cited in search report |         | Publication date | Patent family<br>member(s) |          | Publication date       |                        |
|---|---------|------------------|----------------------------|----------|------------------------|------------------------|
| WO  | 9600688 | A                | 11-01-1996                 | AU       | 699134 B               | 26-11-1998             |
|   |         |                  |                            | AU       | 2952295 A              | 25-01-1996             |
|   |         |                  |                            | BR       | 9508136 A              | 25-11-1997             |
|   |         |                  |                            | CA       | 2193982 A              | 11-01-1996             |
|   |         |                  |                            | EP       | 0766635 A              | 09-04-1997             |
|   |         |                  |                            | NZ       | 289619 A               | 23-12-1998             |
| US  | 4011798 | A                | 15-03-1977                 | AT       | 350958 B               | 25-06-1979             |
|   |         |                  |                            | AT       | 880974 A               | 15-11-1978             |
|   |         |                  |                            | BE       | 822385 A               | 20-05-197              |
|   |         |                  |                            | CA       | 10357 <b>4</b> 1 A     | 01-08-197              |
|   |         |                  |                            | CH       | 601069 A               | 30-06-197              |
|   |         |                  |                            | DE       | 2456108 A              | 12-06-197              |
|   |         |                  |                            | DK       | 618374 A,B,            | 28-07-197              |
|   |         |                  |                            | FI       | 344674 A,B,            | 30-05-197              |
|   |         |                  |                            | FR       | 2252963 A              | 27-06-197              |
|   |         |                  | •                          | GB       | 1486328 A              | 21-09-197              |
|   |         |                  |                            | IT       | 1023420 B              | 10-05-197              |
|   |         |                  |                            | JP       | 50085483 A             | 10-07-197              |
|   |         |                  |                            | LU       | 71379 A                | 06-09-197              |
|   |         |                  |                            | NL       | 7414166 A              | 02-06-197              |
|   |         |                  |                            | NO       | 744302 A,B,            | 23-06-197              |
|   |         |                  |                            | SE       | 409670 B               | 03-09-197              |
|   |         |                  |                            | SE       | 7414917 A              | 30-05-197              |
|   |         |                  |                            | US       | 4087002 A              | 02-05-197              |
| US  | 5540646 | A                | 30-07-1996                 | AT       | 169882 T               | 15-09-199              |
|   |         |                  |                            | AU       | 683037 B               | 30-10-199              |
|   |         |                  |                            | AU       | 5790494 A              | 27-10-199              |
|   |         |                  |                            | CA       | 2104719 A              | 22-10-199              |
|   |         |                  |                            | DE       | 69412531 D             | 24-09-199              |
|   |         |                  |                            | DE       | 69412531 T             | 07-01-199              |
|   |         |                  |                            | EP<br>ES | 0621205 A              | 26-10-199              |
|   |         |                  |                            | JP       | 2123096 T<br>7156307 A | 01-01-199<br>20-06-199 |
|   |         |                  |                            | NZ       | 71503U/ A<br>260120 A  | 24-10-199              |
|   |         |                  |                            | NZ       | 328514 A               | 23-12-199              |
| GR  | 2057392 | A                | 01-04-1981                 | US       | 4267960 A              | 19-05-198              |
| 4D  | -40,002 | ••               | J. UT 2504                 | DE       | 3028600 A              | 12-03-198              |
|   |         |                  |                            | FR       | 2464201 A              | 06-03-198              |
| US  | 5545419 | A                | 13-08-1996                 | AU       | 704143 B               | 15-04-199              |
|   |         |                  |                            | AU       | 2509395 A              | 01-02-199              |
|   |         |                  |                            | CA       | 2154240 A              | 22-01-199              |
|   |         |                  |                            | DE       | 19527800 A             | 04-04-199              |

For more details about this annex: see Official Journal of the European Patent Office, No. 12/82

# ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 98 30 7842

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

05-04-2000

| Patent document cited in search report |   | Publication<br>date | Patent family<br>member(s) |                                      | Publication date                       |
|--|---|---------------------|----------------------------|--------------------------------------|--|
| US 5545419                             | A |                     | FR<br>GB<br>NZ             | 2722763 A<br>2291402 A,B<br>272598 A | 26-01-1996<br>24-01-1996<br>24-11-1997 |

For more details about this annex : see Official Journal of the European Patent Office, No.-12/82-